

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: PUDDING POND	Lake Area (ha):	5.99
Town: CONWAY	Maximum depth (m):	0.8
County: Carroll	Mean depth (m):	0.3
River Basin: Saco	Volume (m ³):	16000
Latitude: 44°02'05" N	Relative depth:	0.3
Longitude: 71°06'51" W	Shore configuration:	1.84
Elevation (ft): 530	Areal water load (m/yr):	27.12
Shore length (m): 1600	Flushing rate (yr ⁻¹):	102.0
Watershed area (ha): 266.8	P retention coeff.:	0.44
% watershed ponded: 0.0	Lake type:	natural

BIOLOGICAL:

6 January 1993

2 September 1992

DOM. PHYTOPLANKTON (% TOTAL)	#1	MOUGEOTIA 65%	DINOBYRON 55%
	#2	DINOBYRON 15%	
	#3		
PHYTOPLANKTON ABUNDANCE (cells/mL)			
CHLOROPHYLL-A (µg/L)			
DOM. ZOOPLANKTON (% TOTAL)	#1	KERATELLA >99%	HORIZONTAL TOW
	#2		(NO CELL COUNTS)
	#3		VERY SPARSE
ROTIFERS/LITER		44	
MICROCRUSTACEA/LITER		<1	
ZOOPLANKTON ABUNDANCE (#/L)		44	
VASCULAR PLANT ABUNDANCE			Abundant
SECCHI DISK TRANSPARENCY (m)			
BOTTOM DISSOLVED OXYGEN (mg/L)		10.2	
BACTERIA (E. coli, #/100 ml)	#1		3
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m³): None
Anoxic volume (m³): None

CHEMICAL:

Lake: PUDDING POND

Town: CONWAY

	6 January 1993		2 September 1992		
DEPTH (m)	1.0		0.1		
pH (units)	5.9		6.1		
A.N.C. (Alkalinity)	3.6		2.6		
NITRATE NITROGEN	< 0.02		< 0.02		
TOTAL KJELDAHL NITROGEN	0.31		0.60		
TOTAL PHOSPHORUS	0.006		0.008		
CONDUCTIVITY (μ mhos/cm)	27.5		28.3		
APPARENT COLOR (cpu)	53		96		
MAGNESIUM			0.26		
CALCIUM			1.4		
SODIUM			2.8		
POTASSIUM			0.52		
CHLORIDE	< 3		3		
SULFATE	2		2		
TN : TP	52		75		
CALCITE SATURATION INDEX			4.6		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1992

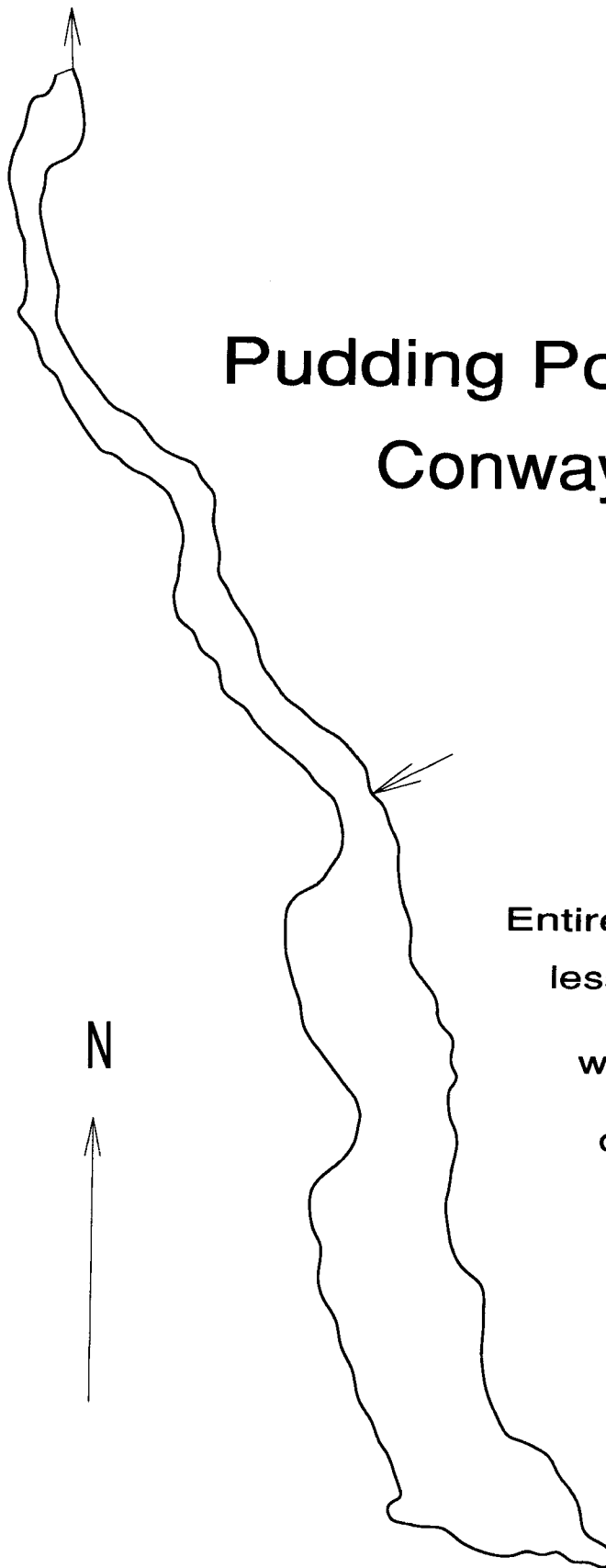
D.O. S.D. PLANT CHL TOTAL CLASS

**	**	5	**	**	N/C
----	----	---	----	----	-----

COMMENTS:

1. Soundings during the summer survey indicated that all depths were less than three feet, with an average of about 1.5 feet. In the winter, a depth of 4 feet was found.
2. Pond was accessed via the Fox Run Inn recreational area.
3. No wholewater plankton analysis was done.

Pudding Pond Conway



Entire lake is
less than 3 feet
with an average
depth of 1.5 feet

0 0.3
Km

III-238

FIELD DATA SHEET

LAKE: PUDDING POND	TOWN: CONWAY
DATE: 09/02/92	WEATHER: SUNNY & CALM

[illegible]

BOTTOM DEPTH (m) : 0.8

TIME:

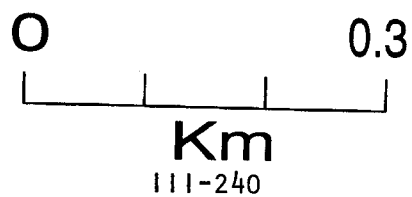
COMMENTS: No dissolved oxygen or temperature data was collected (too shallow and weedy)

*Dissolved oxygen values are in mg/L

Pudding Pond Conway

wetland

N



[illegible]